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APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/666,757	09/21/2000		William S. Yerazunis	MERL-1274	8924	
	7590	03/26/2003				
Patent Depar			EXAMINER			
201 Broadway	,	search Laboratories	TRAN, TRANG U			
Cambridge, MA 02139				ART UNIT	PAPER NUMBER	
				2614	ر ۲	
				DATE MAILED: 03/26/2003	2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	
	09/666,757	YERAZUNIS ET AL.	
Office Action Summary	Examiner	Art Unit	
	Trang U. Tran	2614	
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet w	ith the correspondence address	
A SHORTENED STATUTORY PERIOD FOR REPL	Y IS SET TO EXPIRE 3 N	IONTH(S) FROM	
THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a rep. If NO period for reply is specified above, the maximum statutory period.  - Failure to reply within the set or extended period for reply will, by statut. Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).  Status	.136(a). In no event, however, may a oly within the statutory minimum of thi I will apply and will expire SIX (6) MO te, cause the application to become A	reply be timely filed ty (30) days will be considered timely. NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).	
1) Responsive to communication(s) filed on	·		
2a) This action is <b>FINAL</b> . 2b) ⊠ T	his action is non-final.		
3) Since this application is in condition for allow			
closed in accordance with the practice under Disposition of Claims	r <i>Ex parte Quayle</i> , 1935 C	D. 11, 453 O.G. 213.	
4)⊠ Claim(s) <u>1-9</u> is/are pending in the application			
4a) Of the above claim(s) is/are withdra	awn from consideration.		
5) Claim(s) is/are allowed.			
6)⊠ Claim(s) <u>1-9</u> is/are rejected.			
7) Claim(s) is/are objected to.			
8) Claim(s) are subject to restriction and/	or election requirement.		
Application Papers			
9) The specification is objected to by the Examine			
10)☐ The drawing(s) filed on is/are: a)☐ acce	•		
Applicant may not request that any objection to the	* * * *	• •	
11) The proposed drawing correction filed on	_ , ,, ,	disapproved by the Examiner.	
If approved, corrected drawings are required in re			
12) The oath or declaration is objected to by the E	xamıner.		
Priority under 35 U.S.C. §§ 119 and 120	,		
13) Acknowledgment is made of a claim for foreig	in priority under 35 U.S.C.	§ 119(a)-(d) or (f).	
a) ☐ All b) ☐ Some * c) ☐ None of:			
Certified copies of the priority documen			
2. Certified copies of the priority documen		· ·	
<ul> <li>3. Copies of the certified copies of the price application from the International Books</li> <li>* See the attached detailed Office action for a list</li> </ul>	ureau (PCT Rule 17.2(a)).	·	
14) Acknowledgment is made of a claim for domes	tic priority under 35 U.S.C.	§ 119(e) (to a provisional application).	
a) The translation of the foreign language pr	• •		
Attachment(s)	, ,		
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of	Summary (PTO-413) Paper No(s) Informal Patent Application (PTO-152) .	

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### **DETAILED ACTION**

## Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 2. Claims 1-5 and 9 are rejected under 35 U.S.C. 102(e) as being anticipated by Abali et al. (US Patent No. 6,317,114 B1).

In considering claim 1, Abali et al discloses all the claimed subject matter, note 1) the claimed a first and second accelerometers mechanically coupled to the display screen is met by the horizontal and vertical sensors 41V, 41H (Fig. 6A, col. 4, lines 40-55 and col. 5, lines 23-46), 2) the claimed a first and second compensation circuits to convert acceleration in horizontal and vertical directions respectively to x- and y-compensation signals is met by the horizontal and the vertical motion sensing circuits 42 (Fig. 6A, col. 5, lines 23-46), and 3) the claimed first and second adders combining the x- and y-compensation signals with the horizontal and vertical display signals to dynamically adjust a location of the image on the display screen while the display device is subject to movement is met by the horizontal direction signal and the vertical direction signal circuits 50H and 50V (Fig. 6A, col. 5, line 23 to col. 6, line 14).

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In considering claim 2, the claimed wherein the display screen is a cathode ray tube and the compensation circuits operate in an analog mode is met by the analog signal may be directly fed to the cathode ray tube (CRT) circuitry 100 (Fig. 6A, col. 5, lines 30-65).

In considering claim 3, the claimed wherein the display signals are deflection signals for the cathode ray tube is met by the sawtooth waveform (col. 5, line 50 to col. 6, line 14).

In considering claim 4, the claimed wherein the display screen is a digital screen is met by computer display 10 (Fig. 6B, col. 6, lines 14-26).

In considering claim 5, the claimed wherein the display signals are address signals for a frame buffer of the digital screen is met by a Screen Start Address register which specifies the location in display memory where data to be displayed begins (Fig. 6B, col. 6, lines 14-53).

In considering claim 9, the claimed further comprising a predictive controller to anticipate the movement is met by the graphics driver 61 (Fig. 6B, col. 6, lines 20-38).

## Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 6-8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Abali et al. (US Patent No. 6,317,114 B1) in view of Kerr et al. (US Patent No. 4,916,536).

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In considering claim 6, Abali et al discloses all the claimed subject matter, note 1) the claimed wherein each compensation circuit further comprises: a first and second integrator to convert acceleration to position is met by the horizontal and the vertical motion sensing circuits 42 (Fig. 6A, col. 5, lines 23-46). However, Abali et al explicitly does not disclose the claimed at least one band-pass filter. Kerr et al teach that the signal that is output from the divider 182, is then filtered by third bandpass filter 184 or fourth bandpass filter 186, depending on whether the output is intended for viewing by human observers or machine vision (Fig. 7, col. 7, line 67 to col. 8, line 55). Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to incorporate the bandpass filter as taught by Kerr et al into Abali et al's system in order to efficiency the bandwidth conservation.

In considering claim 7, the claimed wherein a low frequency cut-off of the band pass filter is less than one half cycle per second, and a high frequency cut-off is less than a refresh rate of the display screen is met by the bandpass filter 186 (Fig. 7, col. 8, lines 22-55).

In considering claim 8, Abali et al disclose all the limitations of the instant invention as discussed in claim 1 above, except for providing the claimed wherein each compensation circuit includes a gain control circuit. Kerr et al teach that the received signal is then directed to an automatic gain control device (AGC) 142, device 142 measures intensity and outputs intensity signal 143 (Fig. 6, col. 7, lines 1-22). Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to incorporate the compensation circuit includes a gain control circuit as taught

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by Kerr et al into Abali et al's system in order to increase the quality of the video signal by controlling the gain of the system at standard picture frame frequencies.

### Conclusion

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Hoshal et al (US Patent No. 6,122,959) disclose method and apparatus for recording physical variables of transient acceleration events.

Kim (US Patent No. 6,211,855 B1) discloses technique for controlling screen size of monitor adapted to GUI environment.

Suzuki et al (US Patent No. 4,891,705) disclose apparatus for generating a picture signal at precise horizontal position.

Wu (US Patent No. 5,801,767) discloses image screen automatic adjustment apparatus for video monitor.

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to **Trang U. Tran** whose telephone number is **(703) 305-0090**.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, **John W. Miller**, can be reached at **(703) 305-4795**.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

Washington, D.C. 20231

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or faxed to:

(703) 872-9314 (for Technology Center 2600 only)

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington, VA, Sixth Floor (Receptionist).

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Technology Center 2600 Customer Service Office whose telephone number is (703) 306-0377.

JOHN MILLER

SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2600